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# ***Environmental Management at Dofasco***

Hamilton, Ontario

## *Overview of Dofasco*

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- ▶ Dofasco is one of Canada's largest producers of flat rolled and tubular steels.
- ▶ Dofasco's facilities utilize both basic oxygen steelmaking and scrap-based electric arc furnace technology.
- ▶ Gallatin Steel, Dofasco's joint venture minimill located in Kentucky, produces hot rolled Steels.
- ▶ Dofasco's combined steel shipments from these facilities is approximately four million tons per year.
- ▶ Markets include the automotive, construction, steel distribution, packaging, pipe and tube, manufacturing and appliance industries.
- ▶ Annual consolidated revenues in 1997 were approximately \$3 billion.

## *Environmental Policy*

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“ At Dofasco the conservation and protection of our natural environment is a fundamental consideration in our decision-making. Environmental quality and the well-being of our community are primary goals for all Dofasco people.”

## *Policy*

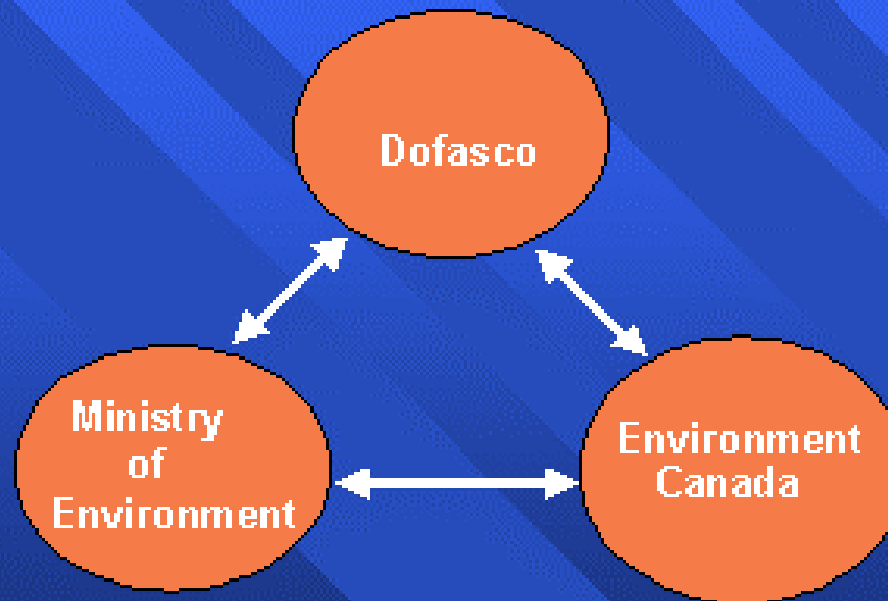
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### **Dofasco's Environment Commitments :**

- **sustainable development**
- **resource management (3Rs)**
- **minimize impacts**
- **optimize the Environmental Management System**
- **training and awareness**
- **meet standards**

## ***Environmental Management Agreement***

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- 8 year agreement with specific performance objectives
- first site specific voluntary initiative in Canada

## ***Environmental Management Agreement***

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- ▶ Dofasco, Environment Canada and Ministry of Environment signed the EMA in November, 1997.
- ▶ First company specific voluntary agreement in Canada
- ▶ Agreement in effect to end of 2005.
- ▶ Agreement covers Air, Water, Waste, EMS, Reporting, Community Involvement, and Administration of the Agreement.

## *Context*

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- ▶ Trend toward voluntary agreements.
- ▶ Regulations costly to develop and implement.
- ▶ Existing regulatory base intact.
- ▶ Industry-wide approaches gaining momentum
  - Canadian Chemical Producers Association
  - Accelerated Reduction & Elimination of Toxics

## ***Dofasco's Objectives***

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1. Reduced uncertainty.
2. Build upon and consolidate existing commitments.
3. Continue to work proactively with both Environment Canada and the Ontario Ministry of Environment.



# ***Environmental Management Agreement***

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Dofasco commits to specific environmental performance goals.

Highlights include:

## **Air**

30 % reduction of PAHs from cokemaking by 2001

80% reduction of benzene from byproducts by 2001

## **Water**

surpass MISA requirements

address contaminated sediments at boat slip

## **Waste**

60% reduction of commercial waste to land fill by 2000

100 % destruction of stored high-level PCB material by 2001

## ***Business Unit Planning***

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- Ensure alignment with Corporate Policy and EMA
- Integration of EMS with Business Unit activities :
  - Business Unit Planning Process
  - Establishment of goals, tactics, projects, and deliverables
  - Provide assistance in monitoring of environmental progress
  - Assist with coordination of special projects, identifying opportunities for environmental improvement, and meeting the goals of the business plan

## ***Environmental Performance Approach : Example - Benzene***

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Commitment to reduce Benzene 80 % by the year 2000

- ▶ **Plan**
  - Recognition that benzene is both an occupational and environmental issue
  - Learn from U.S. regulatory experience
  - Consultation between Environment and Engineering
- ▶ **Do**
  - Assigned responsibilities
  - Review of technologies
  - Site emission inventories
  - Phased approach
- ▶ **Check**
  - Follow-up emission inventories
  - Annual NPRI update
- ▶ **Act**
  - Technical modifications to optimize system

# *Performance Reporting*

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## Internal

- Monthly Board of Directors Report
- Monthly Quality Management Council Report
- Monthly Business Unit Reports

## External

- National Pollutant Release Inventory (NPRI)
- Accelerated Reduction/Elimination of Toxics Program (ARET)
- Annual Environment Report
- Others (i.e., VERP, EMS)
- Annual Review of Progress on the EMA